

Personal Resume

1. Name: Dr. (Mrs.) KRISHNA PRAMANIK
2. Designation: Professor
3. Department: Biotechnology & Medical Engineering
4. Research Area: Nanobiotechnology / Nanomedicine, Fermentation; Bioprocess Engineering
Biomaterial & Tissue Engineering; Reaction Engineering; Bio energy
Modeling & Simulation of Biological Reactions; Environmental Biotechnology
5. Qualification: B.Tech, M.Tech, Ph.D.

6. Career Outline:

- National Institute of Technology, Rourkela as Professor since July 2007
- National Institute of Technology, Warangal as Assistant Professor since March 1999-July, 2007
- Pravara Rural Engg. College, Loni - Assistant Professor-March1996-March 1999
- Council of Scientific & Industrial Research SRF (Engg.)- July1991- August1996
- M/s Allied Resins & Chemicals Ltd. Technical Officer (Res. & Lab)-May1987-July 1991

7. Awards/Recognition

- **Women Scientist Award & Gold Medal -Ministry of Non-conventional Energy Sources, Govt. of India - 2002.**
- **The Sir Ganga Ram Memorial Award & Gold Medal** –The Institution of Engineers India-2005
- **Best paper presentation award** Indian Chemical Engineering Congress (**CHEMCON**) – 2000
- **Honorary Member of Women Advisory Board** of American Biographical Institute 2004
- **Council member** of Ind. Chemical Society (2004-2006)

8. Members of learned societies and national bodies:

Life Member (LM-10539) of The Indian Institute of Chemical Engineers
Life Member (LM-18779) of The Indian Society for Technical Education
Life Member (F-4632) of the Indian Chemical Society
Life Member (LM-60738) of the Institution of Engineers (India)
Life Member (LM-0990/2002) of The Solar Energy Society of India
Executive member of Institution of Engineers (India) Warangal Local Chapter 2005-2006

9. Overseas Visit:

USA, Thailand, Austria, New Zealand, Singapore

10. On going sponsored research projects

Project title: Optimization of Ethanol Production from Agrowaste

Funding agency: DBT

Project Cost: Rs.10.93 Lakhs

Principal investigator: Dr. K.Pramanik

Project title: Preparation, characterization & use of bio-based scaffolds for cell growth in bioreactor-

Funding agency: NIT Rourkela

Project Cost: Rs. 02 Lakh

Principal investigator: Dr. K.Pramanik

11. Referee

- Institution of Engineers (India) J.
- Ind. Chem. Soc. J

12. Continuing Education Activities

- Coordinated UGC sponsored workshop “ Capacity Building of Women Managers in higher Education” - July 2006.
- Organised the TEQIP sponsored workshop on Women and Academic Leadership (WAAL 2006) on 18th March, 2006
- Coordinated Indian Chemical Engineering Student Congress–(IChESCON 06) during 20-21 January, 2006
- Coordinated National Level Technical Symposium-**VIKIRAN-04** during 12-13th March, 2004
- Organized a seminar in the name of Pidilite Industries Ltd to commemorate the Best Student Chapter Award Conferred by the IChE, to IChE student Chapter N.I.T. Warangal on 12th March, 2004.
- Coordinated National Level Technical Symposium –CHEM QUEST- 2002 during 8-9th March, 2002
- Coordinated AICTE/ISTE-STTP on “Computer Control of Chemical Processes”- CCCP- 2001 during 11-23, June-2001

12. Publications (Total No. 31)

Publication in Journal

International

1. **K. Pramanik**, “Properties and Use of J. Curcas oil and Diesel fuel blends in CI Engine, J. Renewable Energy, Elsevier Science Vol 28/2 pp-119-128, 2003
2. **K. Pramanik** “Parametric Studies on Batch Alcohol Fermentation using Saccharomyces Yeast Extracted from Toddy” J. of Chinese Inst. Chem. Engrs. Vol. 34, No. 4, p1-6, 2003.
3. **K. Pramanik**, “Preparation and evaluation of methyl ester of jatropha curcas oil for use in diesel engine” accepted for publication in J. Renewable Energy, Elsevier Science.
4. T. Das & K. Pramanik “Modeling and Performance Evaluation of Solar Water Heating Systems” accepted for publication in J. Renewable Energy, Elsevier Science

National

5. **K. Pramanik**, “A Study on Ethanol Production from the Mixture of Waste Pine Apple and Banana Peel in Slurry Fermenter” J. Indian Chem Engr. Vol 47, No.2, p115-118, 2005.
6. **K. Pramanik** and D. Eswar Rao, “A kinetic study on the ethanol fermentation of grape waste using S.C yeast extracted from toddy” J. of The Institution of Engineers (India) Vol. 85, p53-58, 2005.
7. **K. Pramanik**, “Use of Artificial Neural Networks for Prediction of Cell Mass and Ethanol Concentration in Batch Fermentation of Grape Waste using *Saccharomyces Cerevisiae* Yeast” J. of The Institution of Engineers (India) Vol. 85, p31-35, 2004.
8. N.K. Das and **K. Pramanik**, "Side-chain Alkylation of Toluene with Methanol Over Single Zeolite Catalysts", J. Indian Chem. Soc. – Vol. 74, p701-705, Sept. 1997.
9. N.K. Das and **K. Pramanik**, "Side-chain Alkylation of Toluene with Methanol Over Dual Catalysts Comprising X-zeolite and Fe-Mo Catalyst", J. Indian Chem. Soc. - Vol. 74, p705-708, Sept. 1997.
10. **K. Pramanik** and K. Kadam. "A study on continuous molasses Fermentation by Saccharomyces Yeast", Chemical Weekly –Vol 43, July, p149-151, Aug.18,1998.

11. **K. Pramanik**, Deepak Aggarwal and Ashish C. "Biofuel as an alternative source to diesel and gasoline", Chemical Weekly-Vol 44(14), p153-156, December1, 1998.
12. **K. Pramanik**, and R.W. Gaikwad "Utilisation of Waste Liquor Of Pentaerythritol manufacture as Reducing Agent for the preparation of Chrome Tanning Material", Chemical Weekly, Vol 44(21) p165-167, January19, 1999.
13. **K. Pramanik**, "Development of Neutralizing Agent for Chrome Tanning Leather from the Waste Liquor of Pentaerythritol Manufacture", Chemical Weekly, Vol 45(11), Nov. 9, 1999.
14. **K. Pramanik**, V. Gondkar, B. Tambe & K. Kadam, "Egg processing: To manufacture hole Egg powder", J. Chemical Weekly –Vol 43(33) p.153- 155, April 14, 1998.

Publication in Conference Proceedings

International

1. **K. Pramanik & GG. Tesfaldet** “ **Optimization of Blend of Industrial Solid Wastes as Feedstock for Gasification Process**” proceeding World Renewable Energy Congress VIII, held in **Florence Italy, 21-24 August, 2006**
2. **T. Das & K. Pramanik** “Modeling and Performance Evaluation of Solar Water Heating Systems” proceeding World Renewable Energy Congress VIII, held in Denver, Colorado, USA, during August 28 – September 3, 2004,
3. **K. Pramanik** “ Properties and use of Methyl ester of Jatropa Curcas Oil in Compression Ignition Engine” proceeding World Renewable Energy Congress VIII, held in Denver, Colorado, USA, during Aug 28 – Sept. 3, 2004,
4. **K. Pramanik**, “Parametric Studies on Batch Alcohol Fermentation using Saccharomyces Yeast Extracted from Toddy” Proceeding 9th Asian Pacific Confederation of Chemical Engineering Congress (**APCChe-2002**), Christchurch, New Zealand, September- 2002.
5. **S. Phani Kiran & K.Pramanik**” Modelling of Solute and Solvent Transport Through a Batch Reverse Osmosis Membrane for Desalination of Water” Proceeding International Conference on Advanced Modelling Techniques for Sustainable Management of Water Resources (AMTSMW-2004)” at NIT Warangal - 28-30, January 2004.
6. **K.Pramanik**, “Biogas Generation From Paper and Pulp Mill Waste–A Case Study” proceeding FOREN-2000 organised by WEC, Regional Energy Forum, Romania-2000.
7. **K. Pramanik** “Microbial Biodegradation of Petroleum oil sludge” accepted for oral presentation at the Kuwait First International Petrochemicals Conference & Exhibition Radisson SAS, Kuwait during 12 – 14 december, 2005

National

8. **K. Pramanik**, M. Mukundavani “Lipase-catalysed Transesterification Of Vegetable Oil: Identification of Lipase Producing Fungi and Optimization Of Medium Composition” Proceedings Indian Chemical Engineering Congress –2004.
9. **B. Jeevan, Ch. Venkateswarulu and K.Pramanik** “ Inferential Control of Multicomponent Reactive Batch Distillation”- Proceedings Indian Chemical Engineering Congress –2004.
10. **L. Prasanna Laxmi and K. Pramanik**, “Modelling and Simulation of Batch Alcohol Fermenter Proceeding using ANN” Indian Chemical Engineering Congress (CHEMCON)-2002.
11. **K. Pramanik**, **L.Prasanna Laxmi** and **Kara Srinivas**, “Kinetics of Fermentation of Grape Waste by Saccharomyces Cerevisiae Yeast: Experimental Studies and Mathematical Modeling” Proceeding in Indian Chemical Engineering Congress (CHEMCON)-2003.
12. **K.Pramanik**, **K.Srivani & V. Ravi Chandra** “Catalytic Studies on Trans-esterification of Jatropa Oil for use as Diesel Fuel”- Proceedings Indian Chemical Engineering Congress – 2000, Vol –1, pp-TRE-29-32.
13. **K. Pramanik**, “VOC removal by Biofiltration–An Overview” Proceeding World Congress on Sustainable Development, organized by The Institution of Engineers (I), Calcutta, Jan., 2000.
14. **K. Pramanik**, “Biomethanisation of Distillery Waste – A Case Study” Proceeding Indian Chemical Engineering Congress (CHEMCON)-1999.

15. **K.Pramanik**, "Renewable Energy Environment And Sustainable Development – R&D Perspective" Proceeding 1st National convention of Women Engineers, organized by the Institution of Engineeres (India), Pune local Centre, October- 2001.
16. **K.Pramanik**, "Role of Women Engineers in Sustainable Development with special Reference to Bioenergy for Rural Population" Proceeding-National Seminar on Women in Technical Education organized by the Energy Centre, Maulana Azad College of Tech., Bhopal 2001.
17. **K.Pramanik**, "Energy conservation in Chlor-Alkali Industry" proceeding- Chemical Engineering Research & Development in Economical and Ecofriendly Processes, Golden Jubilee Celebration, IChE, Madras – 1997.